

**ALPHA LIPOIC ACID
CERTIFICATE OF ANALYSIS**

Product Name	Alpha Lipoic Acid	CAS NO.	1077-28-7
Batch Number	20240108128	Quantity	100Kg
Manufacturing Date	2024.01.08	Expiry Date	2026.01.07
Quality Standard	Company Standard	Report Date	2024.01.10
Analytical Items	Specification	Results	
Description	Yellow crystalline powder	Yellow crystalline powder	
Melting Point	60.0-62.0°C	61.1°C	
Identification	Identification by HPLC	Conforms	
	Identification by IR	Conforms	
Specific rotation	-1.0°~+1.0°	Conforms	
Related substance	Impurity A;NMT0.1%	N.D	
	Single Impurity; NMT0.1%	N.D	
	Total Impurities;NMT0.3%	N.D	
polymer content	Conforms	Conforms	
Residual solvents	Ethanol;NMT0.5%	N.D	
	Cyclohexane;NMT0.388%	0.112%	
	Ethyl Acetate;NMT0.5%	0.006%	
	Toluene;NMT0.089%	N.D	
Loss on drying	NMT0.2%	0.09%	
Residue on ignition	NMT0.1%	0.04%	
Heavy metals	NMT10ppm	Conforms	
Assay	99.0%-101.0%	99.8%	
Conclusion	Conforms to USP43		
Inspector: RAN XIN	Corrector:ZHU XIAOHUA	Approved:ZHANG XINFENG	